APPLN. FILING DATE: SEPTEMBER 25, 2006
TITLE: TRIMETASPHERES AS DRY LUBRICANTS, WET LUBRICANTS, LUBRICANT ADDITIVES, LUBRICANT COATINGS, CORROSION-RESISTANT COATINGS AND THERMALLY-CONDUCTIVE MATERIALS INVENTOR(S): CHARLES B. GAUSE
ATTY DKT NO.: 1034136-000037

SHEET 1 OF 2

## **Empty Cage Fullerenes**

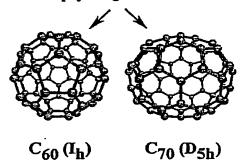


FIG. 1

## Classical Metallofullerene

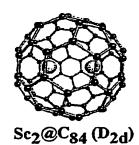


FIG. 2

## nano **Trimetasphere**



 $Sc_3N@C_{80}(I_h)$ 

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SHEET 2 OF 2

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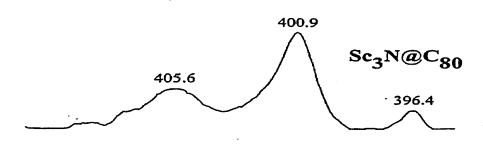


FIG. 4A

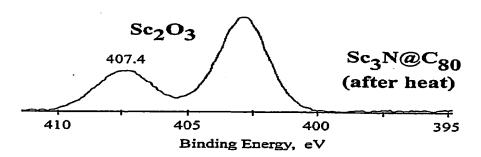


FIG. 4B



FIG. 4C